

## USB 3.0 Connectors

### DESCRIPTION

The USB 3.0 connector is a standard A receptacle with right angle and vertical styles.

Highly reliable connector compliant with physical, electrical and environmental requirements of USB 3.0. USB 3.0 standard A receptacle offers the same interface as the USB 2.0 standard A, with added pins for superspeed USB signals.



### FEATURES & BENEFITS

- Minimizes user wait-time
- Backward compatible with USB 2.0 connector
- Over 10 times performance increase compared to USB 2.0
- Support 5 Gbps data rate for fast sync-n-go
- Receptacle styles : Right-angle and vertical mounting
- High durability : Fully mated condition is confirmed by a definite tactile
- RoHS compliant
- Halogen free

### TARGET MARKETS & APPLICATIONS

- Desktop and laptop
- Digital audio
- High volume storage devices
- Scanners
- Game ports
- High definition A/V equipment
- Control boards

# TECHNICAL INFORMATION

## MATERIALS

- Contact : Copper alloy
- Contact area : 30u" Au or Au flash over nickel
- Tail area : 80u" minimum matte tin plated
- Front shell : Copper alloy
- Back shell : Steel
- Housing & tail guide : High temperature thermoplastic resin, blue color
- UL94 V-0

## ENVIRONMENTAL

- Functional temperature range : -55°C to +85°C, under test connectors mated without damage

## ELECTRICAL PERFORMANCES

- Low level contact resistance : Initial 30m ohms maximum(EIA-364-23)
- Dielectric withstanding voltage : 100VAC ( EIA-364-20)
- Operating Current Rating:1.8A
- Operating Voltage Rating:30VAC(RMS)
- Insulation resistance:Initial 100m ohms minimum (EIA-364-21)

## MECHANICAL PERFORMANCES

- Mating/Un-mating force (initial):
  - Mating force : 35N maximum
  - Unmating force : 10N minimum
- Durability: 3,500 mating cycles (EIA-364-09)
- Contact resistance : delta R=+/-10m ohms maximum
- Appearance : No breakdown
- Mating cycles : 3,500 cycles at maximum rated of 200 cycles per hour
- Test condition : EIA-364-09

## APPROVALS AND CERTIFICATIONS

- UL

## SPECIFICATIONS

- GS-12-0928 product specification
- GS-14-2157 packaging specification
- UL

## PACKAGING

- Tray

## PART NUMBERS

Part Number	Product Description
10117835-001LF	USB 3.0 A Receptacle, R/A, 30u" minimum gold
10117835-002LF	USB 3.0 A Receptacle, R/A, Au flash
10117836-001LF	USB 3.0 A Receptacle, Vertical, 30u" minimum gold
10117836-002LF	USB 3.0 A Receptacle, Vertical, Au flash